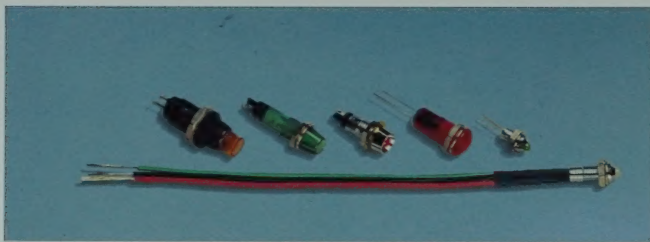


# LED PANEL MOUNT INDICATORS







# Panel Mount

The Dialight 249 series features high efficiency LEDs offering low power operation along with high reliability and extremely long life. Two lens shapes are available, short stovepipe and short cylindrical, both with a fresnel design assuring optimum distribution of light. Terminals are low carbon steel, solder plated, with positive polarity denoted by a "+". Neon assemblies for use in line voltage applications are also available. Dialight 600 Series 6mm. or larger can be supplied with wire leads and integral resistors for 6 and 12 V operations.

## 249 SERIES FOR 3/8" MOUNTING HOLE

Housing Material: Black Anodized Aluminum

PART NUMBER	COLOR	VF	mA	mcd*	FIG.
249-7868-3331-504	R	5	20	30	1
249-7968-3332-504	G	5	20	40	1
249-8068-3333-504	A	5	20	40	1
249-7870-3331-504	R	10	20	30	1
249-7970-3332-504	G	10	20	40	1
249-8070-3333-504	A	10	20	40	1
249-7871-3331-504	R	14	20	30	1
249-7971-3332-504	G	14	20	40	1
249-8071-3333-504	A	14	20	40	1
249-7872-3331-504	R	28	20	30	1
249-7972-3332-504	G	28	20	40	1
249-8072-3333-504	A	28	20	40	1

\* mcd intensity of LED

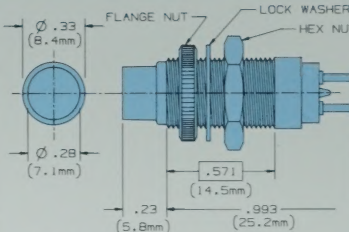


FIG. 1

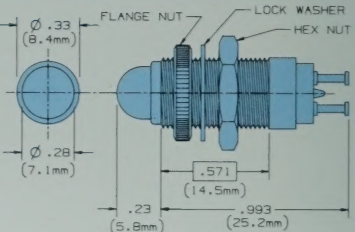


FIG. 1A

FIG. 1A - To specify indicators with short stove pipe lens change the first two digits in the third part-number block from 33 to 37. For example: 249-7970-3332-504 would become 249-7970-3732-504.

## 605 SERIES FOR 5MM MOUNTING HOLE

Housing Material: Chrome Plated Brass

PART NUMBER	COLOR	VF	mA	mcd*	FIG.
605-1111-110	R	2	10	1.2	2
605-1211-110	G	2	15	0.8	2
605-1311-110	Y	2	15	2.0	2
605-2111-110	R	2	10	1.2	3
605-2211-110	G	2	15	0.8	3
605-2311-110	Y	2	15	2.0	3

\* mcd intensity of LED

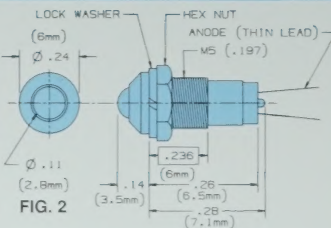


FIG. 2

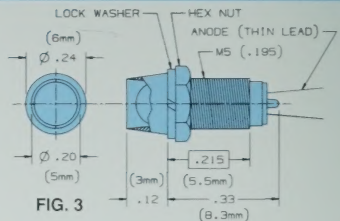


FIG. 3

## 606 SERIES FOR 6MM MOUNTING HOLE

Housing Material: Chrome Plated Brass

PART NUMBER	COLOR	VF	mA	mcd*	FIG.
606-1111-110	R	2	5	2.4	4
606-1211-110	G	2	15	3.0	4
606-1311-110	A	2	10	3.7	4
606-2111-110	R	2	5	2.4	5
606-2211-110	G	2	15	3.0	5
606-2311-110	A	2	10	3.7	5
606-1415-110	R	2	5/20	6/1.0	6
606-1415-120	R	6	5/20	6/1.0	6
606-1415-130	R	12	5/20	6/1.0	6
606-2415-110	R	2	5/20	6/1.0	7
606-2415-120	R	6	5/20	6/1.0	7
606-2415-130	R	12	5/20	6/1.0	7

\* mcd intensity of LED

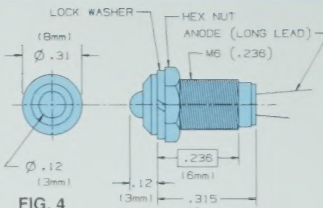


FIG. 4

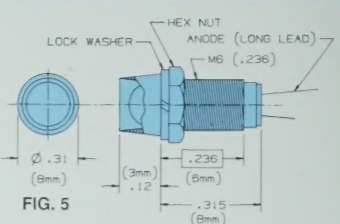


FIG. 5

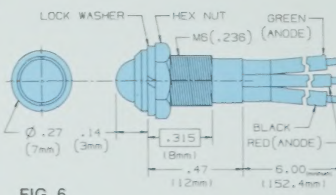


FIG. 6

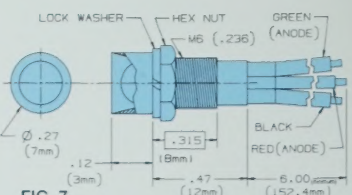


FIG. 7

( ) Metric dimension in mm.

Dimensional Tolerances for 3 place decimals:  $\pm .005$  (.04 mm)

Dimensional Tolerances for 2 place decimals:  $\pm .015$  (.013 mm)

## 607 SERIES FOR 7MM MOUNTING HOLE

Housing Material: Chrome Plated Brass  
(\*\* Polycarbonate matching color of LED)

PART NUMBER	COLOR	VF	mA	mcđ*	FIG.
607-1112-110	R	2	15	8.0	8
607-1212-110	G	2	15	8.0	8
607-1312-110	A	2	15	2.2	8
607-2112-110	R	2	15	8.0	9
607-2212-110	G	2	15	8.0	9
607-2312-110	A	2	15	2.2	9
607-1112-120	R	6	15	8.0	10
607-1212-120	G	6	15	8.0	10
607-1312-120	A	6	15	8.2	10
607-1112-130	R	12	15	8.0	10
607-1212-130	G	12	15	8.0	10
607-1312-130	A	12	15	2.2	10
607-2112-120	R	6	15	8.0	11
607-2212-120	G	6	15	8.0	11
607-2312-120	A	6	15	2.2	11
607-2112-130	R	12	15	8.0	11
607-2212-130	G	12	15	8.0	11
607-2312-130	A	12	15	2.2	11
607-3132-120**	R	6	15	8.0	12
607-3232-120**	G	6	15	8.0	12
607-3332-120**	A	6	15	2.2	12
607-3132-130**	R	12	15	8.0	12
607-3232-130**	G	12	15	8.0	12
607-3332-130**	A	12	15	2.2	12

\* mcđ intensity of LED

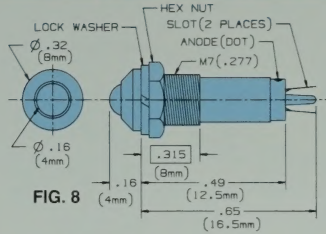


FIG. 8

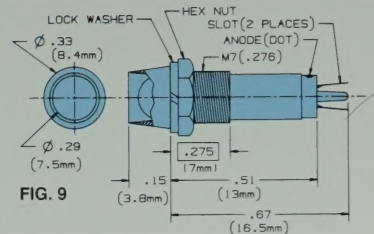


FIG. 9

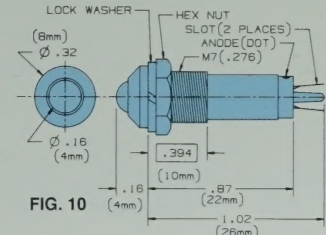


FIG. 10

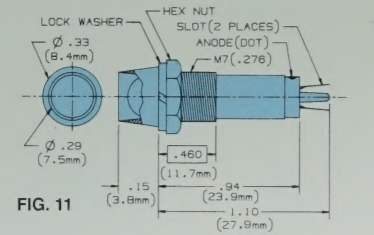


FIG. 11

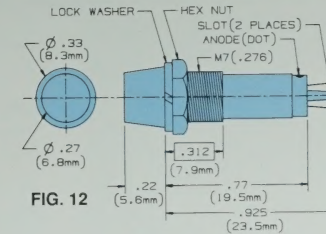


FIG. 12

## 608 SERIES FOR 8MM MOUNTING HOLE

Housing Material: Polycarbonate matching color of LED

PART NUMBER	COLOR	VF	mA	mcđ*	FIG.
608-1131-110	R	2	15	20	13
608-1231-110	G	2	15	15	13
608-1331-110	A	2	15	4	13
608-3131-110	R	2	15	20	14
608-3231-110	G	2	15	15	14
608-3331-110	A	2	15	4	14

\* mcđ intensity of LED

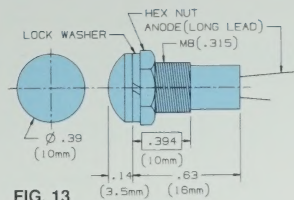


FIG. 13

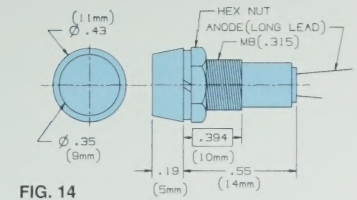


FIG. 14

## 609 SERIES FOR 9MM MOUNTING HOLE

Housing Material: Chrome Plated Brass

PART NUMBER	COLOR	VF	mA	mcđ*	FIG.
609-1112-120	R	6	15	20	15
609-1212-120	G	6	15	15	15
609-1312-120	A	6	15	4	15
609-1112-130	R	12	15	20	15
609-1212-130	G	12	15	15	15
609-1312-130	A	12	15	4	15
609-2112-120	R	6	15	20	16
609-2212-120	G	6	15	15	16
609-2312-120	A	6	15	4	16
609-2112-130	R	12	15	20	16
609-2212-130	G	12	15	15	16
609-2312-130	A	12	15	4	16

\* mcđ intensity of LED

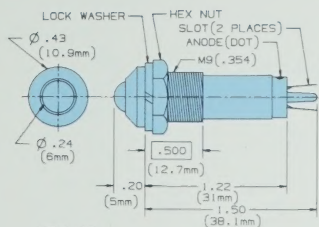


FIG. 15

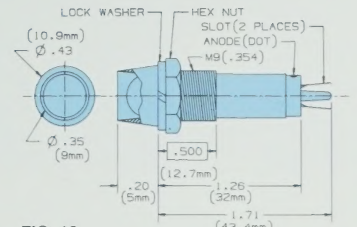


FIG. 16

( ) Metric dimension in mm.

Dimensional Tolerances for 3 place decimals:  $\pm .005$  (.04 mm)

Dimensional Tolerances for 2 place decimals:  $\pm .015$  (.013 mm)



## 610 SERIES FOR 10MM MOUNTING HOLE

Housing Material: Black Polycarbonate

PART NUMBER	COLOR	VF	mA	mcd*	FIG.
610-3132-120	R	6	10	250	17
610-3232-120	G	6	10	15	17
610-3332-120	A	6	10	12	17
610-4132-120	R	6	10	250	18
610-4232-120	G	6	10	15	18
610-4332-120	A	6	10	12	18

\* mcd intensity of LED

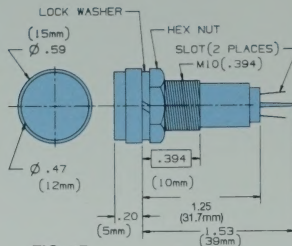


FIG. 17

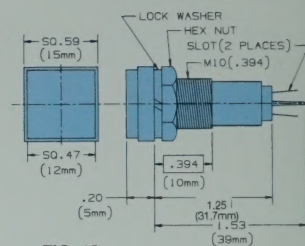
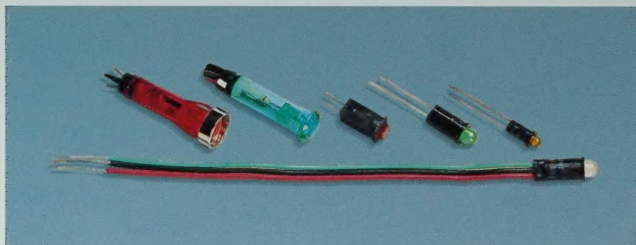


FIG. 18



## Snap-in Mount

Dialight's snap-in mount LED indicator lights, available in red, green and yellow, require no additional mounting hardware for 0.031" to 0.062" thick panels, and features a compact design that allows high density packaging. Power requirements are low, ranging from 2 to 20 mA, depending upon the specific type.

Some models are also available with integral current limiting resistors for direct use at 5V or 12V. Polarity is readily identifiable, and terminals can be either straight pins suitable for wire wrapping or soldering, or 6" wire leads. Square, bi-color and tri-color models are also available, with the latter in a common cathode configuration.

## 558 SERIES FOR 0.156" MOUNTING HOLE

Housing Material: Black Polycarbonate

PART NUMBER	COLOR	VF	mA	mcd	FIG.
558-0101-001	R	2	20	2.8	19
558-0201-001	G	2	10	16	19
558-0301-001	Y	2	10	2.5	19
558-0101-003	R	2	20	2.8	20
558-0201-003	G	2	10	16	20
558-0301-003	Y	2	10	2.5	20
558-0102-001	R	5	15	1.5	19
558-0202-001	G	5	10	4	19
558-0302-001	Y	5	10	4	19
558-0102-003	R	5	15	1.5	20
558-0202-003	G	5	10	4	20
558-0302-003	Y	5	10	4	20
558-1101-001	R	2	2	1.8	19
558-1301-001	G	2	2	1.6	19
558-1201-001	Y	2	2	1.6	19
558-1101-003	R	2	2	1.8	20
558-1301-003	G	2	2	1.6	20
558-1201-003	Y	2	2	1.6	20

### STRAIGHT TERMINALS

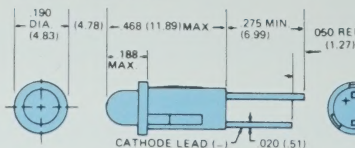


FIG. 19

### 26 AWG WIRE LEADS

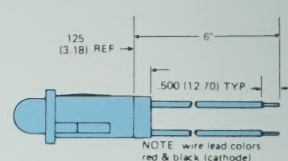


FIG. 20

Mounting hole - .155 (3.94) TO .158 (4.01) Diameter

( ) Metric dimension in mm.

Dimensional Tolerances for 3 place decimals:  $\pm .005$  (.04 mm)

Dimensional Tolerances for 2 place decimals:  $\pm .015$  (.013 mm)

## 559 SERIES FOR 0.250" MOUNTING HOLE

Housing Material: Black Polycarbonate

PART NUMBER	COLOR	VF	mA	mcd*	FIG.
559-0101-001	R	2	5	2.7	21
559-0201-001	G	2	10	10	21
559-0301-001	Y	2	10	6.3	21
559-0101-003	R	2	5	2.7	22
559-0201-003	G	2	10	10	22
559-0301-003	Y	2	10	6.3	22
559-0102-001	R	5	15	2	21
559-0202-001	G	5	10	4	21
559-0302-001	Y	5	10	4	21
559-0102-003	R	5	15	2	22
559-0202-003	G	5	10	4	22
559-0302-003	Y	5	10	4	22
559-0103-001	R	12	15	2	21
559-0203-001	G	12	15	4	21
559-0303-001	Y	12	15	4	21
559-0103-003	R	12	15	2	22
559-0203-003	G	12	15	4	22
559-0303-003	Y	12	15	4	22
559-1101-001	R	1.8	2	1.8	21
559-1301-001	G	1.8	2	1.6	21
559-1201-001	Y	1.9	2	1.6	21
559-1101-003	R	1.8	2	1.8	22
559-1301-003	G	1.8	2	1.6	22
559-1201-003	Y	1.9	2	1.6	22
559-2101-001	R	2	10	7	21
559-2201-001	G	2	10	10	21
559-2301-001	Y	2	10	6.3	21
559-2101-003	R	2	10	7	22
559-2201-003	G	2	10	10	22
559-2301-003	Y	2	10	6.3	22
559-3001-001	R, G	2	20	6	23
559-3001-003	R, G	2	20	6	24
559-3501-003	R, G	2	5	1.2	25
559-4101-00	R	1.9	5	1.4	26
559-4201-001	G	2.1	20	1	26
559-4301-001	Y	2.1	20	1	26
559-4101-003	R	1.9	5	1.4	27
559-4201-003	G	2.1	20	1	27
559-4301-003	Y	2.1	20	1	27
559-5101-001	R	1.7	20	30	21
559-5201-001	G	1.7	20	12	21
559-5301-001	Y	2.1	20	45	21
559-5101-003	R	1.7	20	30	22
559-5201-003	G	1.7	20	12	22
559-5301-003	Y	2.1	20	45	22

STRAIGHT TERMINALS

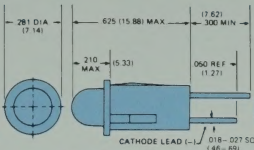


FIG. 21

24 AWG WIRE LEADS

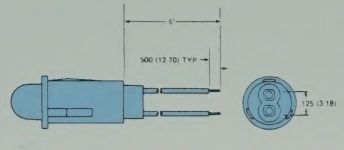


FIG. 22

STRAIGHT TERMINALS

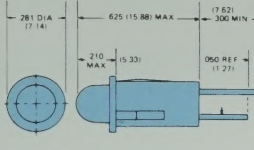


FIG. 23

24 AWG WIRE LEADS

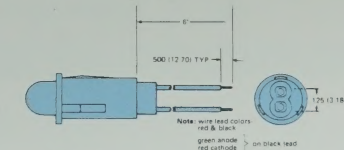


FIG. 24

24 AWG WIRE LEADS

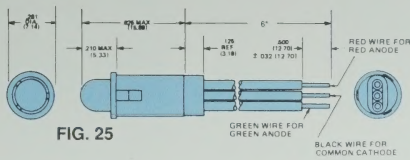


FIG. 25

Note: Figures 21, 22, 23, 24 & 25:  
Recommended mounting hole:  
.249 (6.32) to (6.40) diameter

STRAIGHT TERMINALS

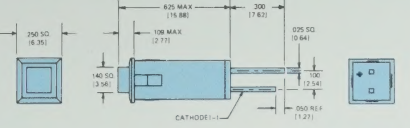


FIG. 26

24 AWG WIRE LEADS

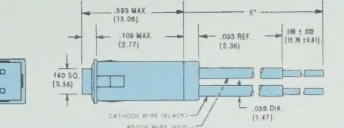


FIG. 27

## 608 SERIES FOR 8MM MOUNTING HOLE

Housing Material: Polycarbonate matching color of LED

PART NUMBER	COLOR	VF	mA	mcd*	FIG.
608-1132-220	R	6	15	20	28
608-1232-220	G	6	15	20	28
608-1332-220	A	6	15	10	28
608-1132-230	R	12	15	20	28
608-1232-230	G	12	15	20	28
608-1332-230	A	12	15	10	28
608-2132-220	R	6	15	20	29
608-2232-220	G	6	15	20	29
608-2332-220	A	6	15	10	29
608-2132-230	R	12	15	20	29
608-2232-230	G	12	15	20	29
608-2332-230	A	12	15	10	29

\* mcd intensity of LED

( ) Metric dimension in mm.

Dimensional Tolerances for 3 place decimals:  $\pm .005$  (.04 mm)

Dimensional Tolerances for 2 place decimals:  $\pm .015$  (.013 mm)

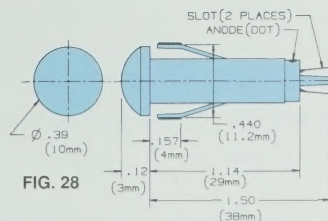


FIG. 28

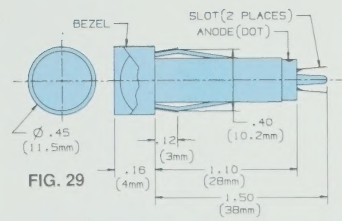


FIG. 29



# Datalamp Cartridges

The 507 series of LED Datalamp cartridges are front relampable and offer the advantages of low power, IC compatibility, high reliability and long life. They may be used as direct replacements for incandescent cartridges operating from a D.C. power source at the same voltage levels. The nickel silver pins in a nylon header are polarized for proper mounting into either the 250 or the 508 series Datalamp holders. They can also be used with the 515 series of connectors and speed clip. Two lens shapes are available, short stovepipe and short cylindrical, both with a fresnel pattern assuring maximum distribution of light. Please contact the factory for information relating to available neon and incandescent models, and for cartridges with no integral resistor.

## 507 SERIES

Housing Material: Black Anodized Aluminum

PART NUMBER	COLOR	VF	CURRENT (mA)	mcld*	FIG.
507-4757-3331-500	R	5	15	10	30
507-4857-3332-500	G	5	20	50	30
507-4957-3333-500	A	5	20	35	30
507-4759-3331-500	R	10	15	10	30
507-4859-3332-500	G	10	20	50	30
507-4959-3333-500	A	10	20	35	30
507-4760-3331-500	R	14	20	10	30
507-4860-3332-500	G	14	20	50	30
507-4960-3333-500	A	14	20	35	30
507-4761-3331-500	R	28	20	10	30
507-4861-3332-500	G	28	20	50	30
507-4961-3333-500	A	28	20	35	30

\* mcld intensity of LED

Mounting hole - .284 (7.2mm)

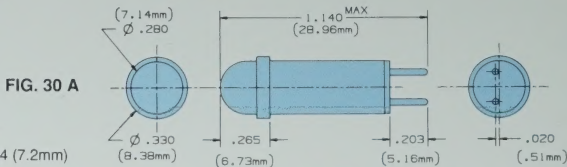
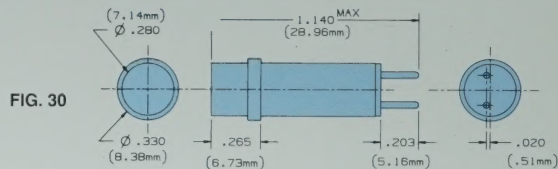
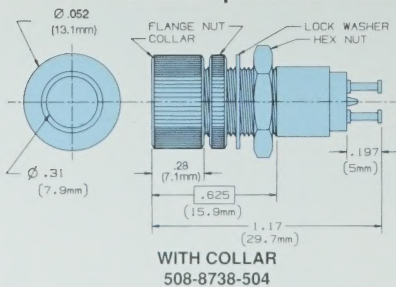


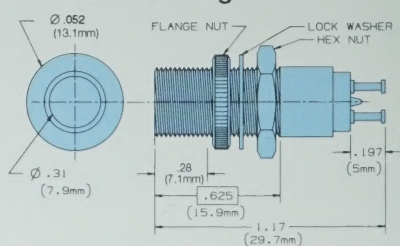
FIG 30 A - To specify indicators with short stove-pipe lens change the first two digits in the third part-number block from 33 to 37. For example: 507-4757-3331-500 would become 507-4757-3731-500. Please check with factory for other options.

## DATALAMP ACCESSORIES

### Datalamp Holder With Turret Terminals For 3/8" Mounting Hole



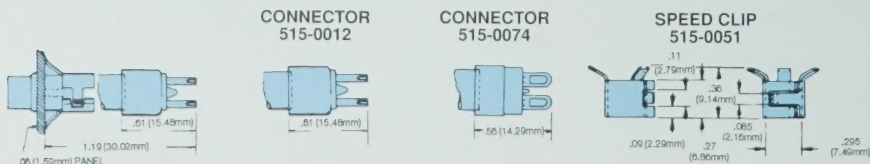
WITH COLLAR  
508-8738-504



WITHOUT COLLAR  
250-8738-14-504

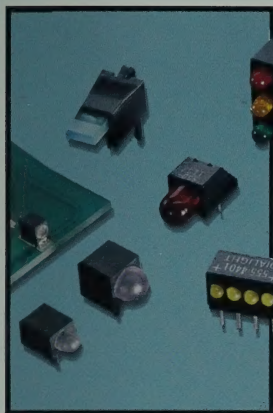
To specify a Datalamp Holder with other than turret terminals, change the four digits in the second part-number block from -8738- to -7538- for solder cup terminals, or -7438- for solder blade terminals. Example: 508-7438-504

### Cartridge Connectors & Speed Clip



( ) Metric dimension in mm.  
Dimensional Tolerances for 3 place decimals:  $\pm .005$  (.04 mm)  
Dimensional Tolerances for 2 place decimals:  $\pm .015$  (.013 mm)

# Also From Dialight... From Panel Mount



## CIRCUIT BOARD INDICATORS

For twenty years, Dialight has met the angle and top view circuit board indicator demanding needs: from superminiature to T-1 3/4, meets UL 94V-0 flammability

- Surface Mount
- Bi and Trilevel
- Rectangular
- Single, Dual and Quad Pack

Our extensive in-house design and capabilities, plus our high quality manufacturing facilities, unmatched for satisfaction.

### IN-HOUSE

- State-of-the-art CAD •
- Model Shop •
- Complete Molding Capabilities •
- Tooling Facilities • Low minimum



## PANEL MOUNT INDICATORS Neon & Incandescent Military

For more than 50 years has quality panel mounting indicators

- QPL Listed
- Mil-Qualified
- Mil-Qualified NVIS compatible and Edge Lighting products
- Mil-Qualified Secure Lighting
- UL/CSA

## LED LAMPS & READOUTS

Dialight's LEDs and Readouts are available in a wide variety of applications - we offer you a wide variety of

### LED LAMPS

- Various Sizes •
- Various Colors •
- Efficiencies •
- Intensities •

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# Datalamp Cartridges

The 507 series of LED Datalamp cartridges are front relampable and offer the advantages of low power, IC compatibility, high reliability and long life. They may be used as direct replacements for incandescent cartridges operating from a D.C. power source at the same voltage levels. The nickel silver pins in a nylon header are polarized for proper mounting into either the 250 or the 508 series Datalamp holders. They can also be used with the 515 series of connectors and speed clip. Two lens shapes are available, short stovepipe and short cylindrical, both with a fresnel pattern assuring maximum distribution of light. Please contact the factory for information relating to available neon and incandescent models, and for cartridges with no integral resistor.

## 507 SERIES

Housing Material: Black Anodized Aluminum

PART NUMBER	COLOR	VF	CURRENT (mA)	mod*	FIG.
507-4757-3331-500	R	5	15	10	30
507-4857-3332-500	G	5	20	50	30
507-4957-3333-500	A	5	20	35	30
507-4759-3331-500	R	10	15	10	30
507-4859-3332-500	G	10	20	50	30
507-4959-3333-500	A	10	20	35	30
507-4760-3331-500	R	14	20	10	30
507-4860-3332-500	G	14	20	50	30
507-4960-3333-500	A	14	20	35	30
507-4761-3331-500	R	28	20	10	30
507-4861-3332-500	G	28	20	50	30
507-4961-3333-500	A	28	20	35	30

\* mod intensity of LED

Mounting hole - .284 (7.2mm)

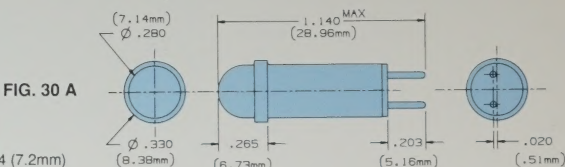
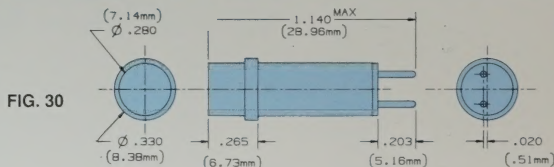
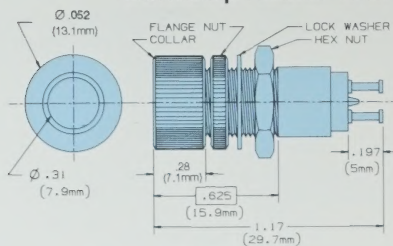


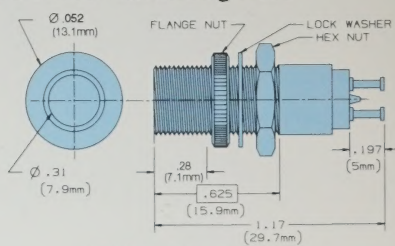
FIG. 30 A - To specify indicators with short stove-pipe lens change the first two digits in the third part-number block from 33 to 37. For example: 507-4757-3331-500 would become 507-4757-3731-500. Please check with factory for other options.

## DATALAMP ACCESSORIES

### Datalamp Holder With Turret Terminals For 3/8" Mounting Hole



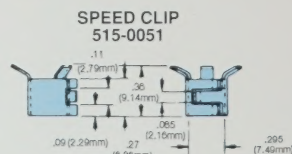
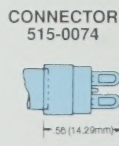
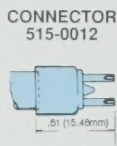
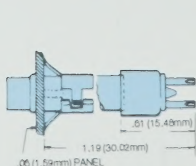
WITH COLLAR  
508-8738-504



WITHOUT COLLAR  
250-8738-14-504

To specify a Datalamp Holder with other than turret terminals, change the four digits in the second part-number block from -8738- to -7538- for solder cup terminals, or -7438- for solder blade terminals. Example: 508-7438-504

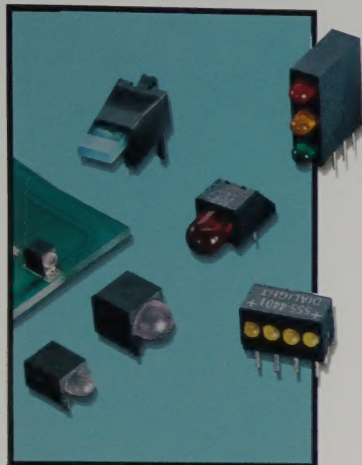
## Cartridge Connectors & Speed Clip



( ) Metric dimension in mm.  
Dimensional Tolerances for 3 place decimals:  $\pm .005$  (.04 mm)  
Dimensional Tolerances for 2 place decimals:  $\pm .015$  (.013 mm)



# Also From Dialight... From Panel Mount to Surface Mount



## CIRCUIT BOARD INDICATORS

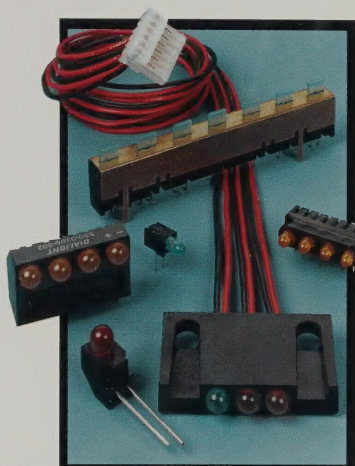
For twenty years, Dialight has provided a wide range of right angle and top view circuit board indicators to meet your demanding needs: from super bright to super efficient (2mA), from subminiature to T-1 3/4 sizes housed in material that meets UL 94V-0 flammability rating.

- Surface Mount
- Bi and Trilevel
- Rectangular
- Single, Dual and Quad Packages

## CUSTOM PRODUCTS

Our extensive in-house design and optoelectronics engineering capabilities, plus our high quality manufacturing expertise, make us unmatched for satisfying your particular needs.

- |                                 |                                     |
|---------------------------------|-------------------------------------|
| IN-HOUSE                        | OFFERING YOU                        |
| State-of-the-art CAD •          | Proprietary designs •               |
| Model Shop •                    | Affordability •                     |
| Complete Molding Capabilities • | Quick turn-around •                 |
| Tooling Facilities •            | Low minimum production quantities • |



## PANEL MOUNT INDICATOR LIGHTS Neon & Incandescent Military & Commercial

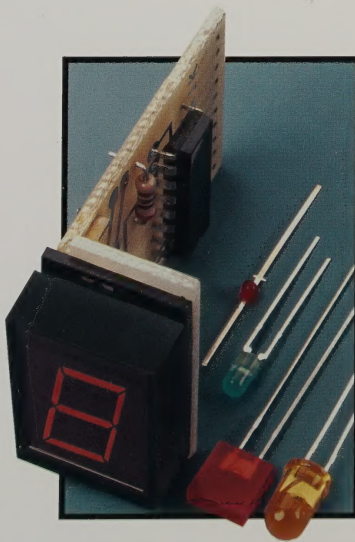
For more than 50 years has offered the world's most extensive line of high quality panel mounting indicators.

- QPL Listed
- Mil-Qualified
- Mil-Qualified NVIS compatible Press-To-Test and Edge Lighting products
- Mil-Qualified Secure Lighting Indicator products
- UL/CSA

## LED LAMPS & READOUT DISPLAYS

Dialight's LEDs and Readouts are available to help you with your application - we offer you a wide variety of products, including:

- |                  |                          |
|------------------|--------------------------|
| LED LAMPS        | READOUTS                 |
| Various Sizes •  | Various Sizes •          |
| Various Colors • | Various Colors •         |
| Efficiencies •   | 7 Segment & Dot Matrix • |
| Intensities •    | Electronics •            |
|                  | Bezeled Assembly Kits •  |



- Yes, I'd like more information:**
- ☐ Please have a representative call.
  - ☐ Please send me an evaluation sample of P/N \_\_\_\_\_
  - ☐ Please send me the data sheet on P/N \_\_\_\_\_

**Please send me a catalog on these other Dialight products:**

- ☐ CBI (Circuit Board Indicators)
- ☐ Readout Displays
- ☐ Neon and Incandescent Panel Mount Indicators

NAME	_____
TITLE	_____
COMPANY	_____
ADDRESS	_____
CITY	STATE ZIP
PHONE	EXTENSION

- Yes, I'd like more information:**
- ☐ Please have a representative call.
  - ☐ Please send me an evaluation sample of P/N \_\_\_\_\_
  - ☐ Please send me the data sheet on P/N \_\_\_\_\_

**Please send me a catalog on these other Dialight products:**

- ☐ CBI (Circuit Board Indicators)
- ☐ Readout Displays
- ☐ Neon and Incandescent Panel Mount Indicators

NAME	_____
TITLE	_____
COMPANY	_____
ADDRESS	_____
CITY	STATE ZIP
PHONE	EXTENSION



# DIALIGHT CORPORATION

1913 Atlantic Ave.  
Manasquan, NJ 08736

## **This is the information you requested.**

Thank you for your interest in Dialight,  
the world's largest and most respected name in indicator devices.  
Whatever your needs...all indications are Dialight.

### **Dialight Regional Offices**

#### **EASTERN REGION**

1913 Atlantic Avenue  
Manasquan, NJ 08736  
Tel: (908) 223-9400  
Fax: (908) 223-9429

#### **MID-AMERICA REGION**

Lake Calhoun Executive Suites  
3033 Excelsior Blvd., Suite 300  
Minneapolis, MN 55416  
Tel: (612) 924-2318  
Fax: (612) 928-9431

#### **WEST REGION**

701 Palomar Airport Road  
Suite 300, Carlsbad, CA 92009  
Tel: (619) 931-4733  
Fax: (619) 931-0414

#### **EUROPE**

L'Esplanade - Parc d'Entreprise Bat. Ti,  
77462 Saint Thibault Des Vignes, France  
Tel: +33 1 64 30 55 55  
Fax: +33 1 60 07 64 65

ALL INDICATIONS ARE

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